MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Recon Building Products
3120 Mc Callum Rd
Abbotsford, B.C. VS2 7W7

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Re-Con Fire Free Shake/Slate

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 97-0311.01 and consists of pages 1 through 6.
The submitted documentation was reviewed by Frank Zuloaga, RRC.

ROOFING SYSTEM APPROVAL:

Category:	Roofing
Sub-Category:	Slate
Material:	Fiber-Cement
Deck Type:	Wood
Maximum Design Pressure	-103 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Description	Product Description
Re-Con Fire Free Shake/Slate	L=22 ½" W=5,7, &12" Shake W=12" Slate ¾" to ¼" thickness Exposure max.= 10"	PA 135	Wood shake, shingle, and slate simulated Fiber-cement

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Ramtech Laboratories, Inc.	10764-96	Re-Con FireFree Shake PA 135-95	2/11/97
Inchcape Testing Service Warnoch Hersey Prefessional Sevice	488-0065B	PA 100-95 Re-Con FireFree	7/12/96
Weyerhaeuser Fire Technology Lab	9305-04	Re-Con FireFree Shake ASTM E 108	5/13/93
Ramtech Laboratories, Inc.	10401-95	ASTM E 330 Uplift FireFree Shake	10/10/95

Approved System:

Deck Type: Wood, Non-insulated, $^{19}/_{32}$" or greater plywood or wood plank.

Underlayment A single layer of ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 ¼" annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll. Or, any approved underlayment having a current NOA.

Interlayment Minimum #30 ASTM D 226 type II organic felt 18" wide, is laid horizontally, with 8" head laps and 6" end laps. The Fire Free Shake/Slate roofing material is interwoven with the felt by tucking the top 2 ½" of each piece under the corresponding course of interlayment felt. Properly installed there should be **no** felt visible in the key way between shakes or slate pieces.

Edge Metal Shall be in accordance with the Florida Building Code and Roofing Application Standard RAS 111.

Valley Metal Valley metal shall be in accordance with applicable Building Code. The valley metal shall be underlayed as a minimum with an additional full sheet of ASTM D226 type II, organic felt, installed over the underlayment and centered in the valley. The additional underlayment sheet shall be fastened along each edge, 6"o.c. with minimum 12 ga. X 1 ¼" roofing nails and minimum 32 ga. X 1 5/8" diameter tin caps. The valley metal shall be preformed with a minimum 1" high center crimped water diverter. The valley shall be flashed with a minimum Type 30, 36" ASTM felt underlayment installed beneath a minimum 26 gauge, nominal 24" wide, corrosion resistant, galvanized sheet metal valley flashing in addition to the underlayment required for general field application of shakes/slate. Fasten the valley metal with minimum 12 ga. x 1 ¼" annular ring shank roofing nails of similar and compatible material to the valley metal and spaced along each edge of the valley metal 12" o.c., no more than 1" in from the exterior edge. Valley metal laps shall be a minimum of 8", ASTM D4586 flashing cement shall be applied between the laps. Fire-Free shakes/slate fasteners shall be kept back at least 8" from the valley centerline.

Fire Free Shake, Slate:

Install Fire Free roofing material as follows (See Detail A):
A preservative treated wood lath starter strip ¼ x 1 $^{3}/_{8}$ x 48" shall be installed over the underlayment and drip edge metal at the eave. Fasten with ten 7d galvanized nails. The first course shall be doubled at the eave line with the bottom being the Fire Free starter pieces. The starter pieces measure 14 inches (355.6mm) long by 5, 7 or 12 inches (127, 178 or 305 mm) wide. The first course shall extend beyond the fascia a maximum of 1½ inches (38mm). The maximum overhang on the gable shall be 2 inches (51 mm).

The first course is laid over the tapered Fire Free Building Products starter piece with the leading edges flush with the leading edge of the starter course. The starter course shall be fastened with two 6d (.093" shank diameter x 2 inch long x 0.25" head diameter) ring shank galvanized or stainless steel nails. The products shall be laid with approximately ¼ to ½ inch side joint spacing between pieces within the same course. The side joint spacing between adjacent courses shall be a minimum of 1½ inch (38 mm) spacing. The maximum exposure shall be 10".

Each piece shall be fastened with a minimum of two 6d galvanized or stainless steel nails of sufficient length to penetrate through the sheathing a minimum of $^{3}/_{16}$ inch, located between ½ inch and 1 ½ inch (12.7 and 38 mm) above the exposure line to insure penetration into the tail end of the piece beneath. All fasteners shall penetrate through the bottom of the sheathing a minimum of $^{3}/_{16}$" or shall penetrate 1" into sheathing that is 1" or more in thickness.

Follow the standard application instructions for FireFree Roofing Materials and in addition to the fasteners apply three 1.5 inch long beads of RT 600 adhesive on a parallel plane on the nail line, perpendicular to the roof slope. Adhesive shall extend across the entire width of the Slate or Shake, including starter piece.

Staggered Course Rustic Shake or Staggered Quarry Slate application may be achieved by changing the length of the exposure of the felt, and the length of the exposure of the FireFree Roofing product.

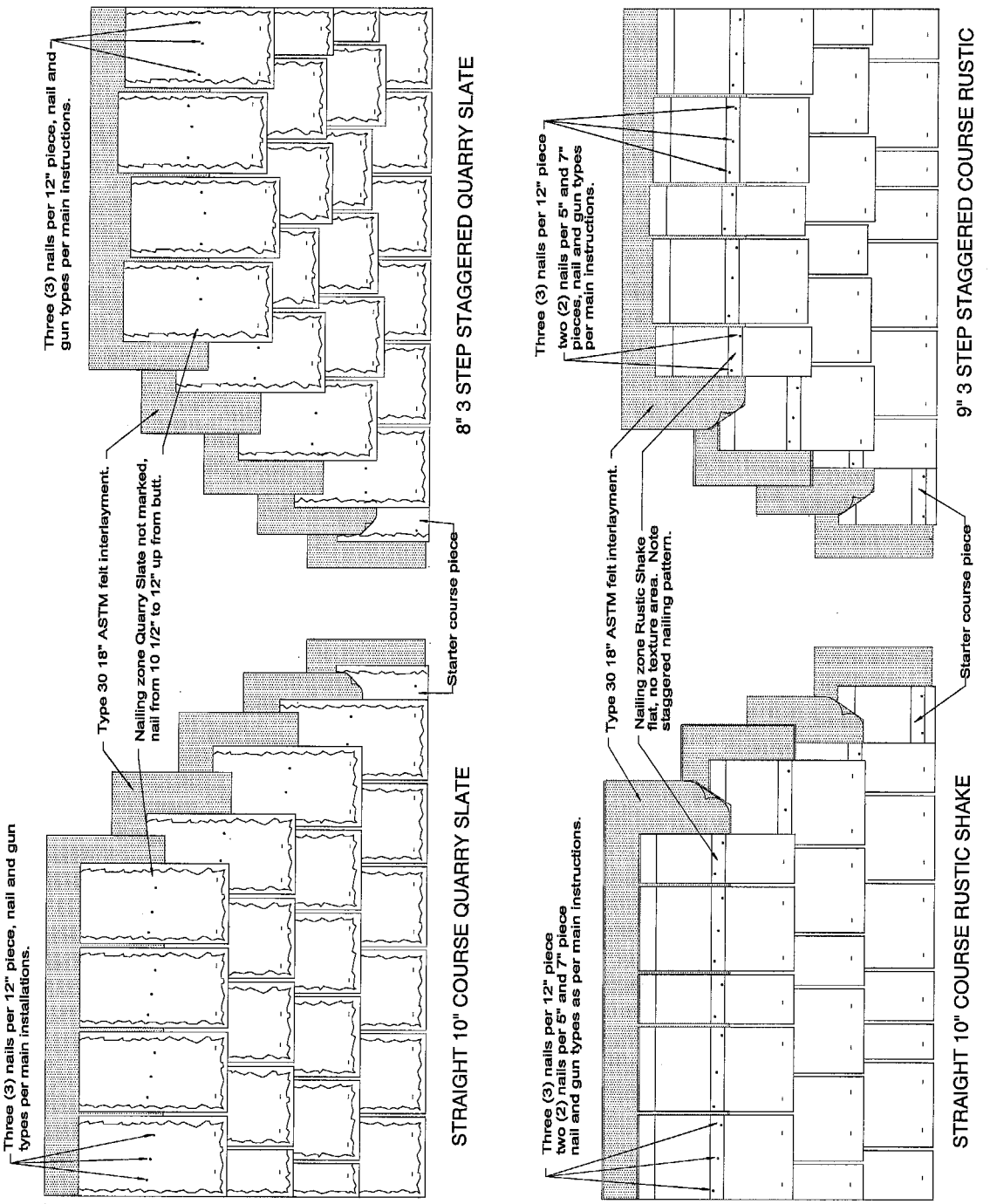
Hip and Ridge	Prior to installing the hip ridge units, the field interlayment should lap the peak of the hip or ridge at least 4" each way resulting in a double layer of felt. The remaining field material is applied then a 6" wide strip of felt is laid on top along the peak line. Then the hip and ridge pieces are applied on top. Hip and Ridge units are tapered, beveled, and stapled together to ensure ease of application. The units are 22 ½" long, extend down each side of the ridge 4 ¾" and expose no more than 10" to the weather. They are designed with an alternating left/right stapled joint lap to deliver a straight hip and ridge line. Hip and ridge application requires a double course (a hip and ridge "starter" under the first exposed hip and ridge) at the eave line (hip ends) and gable apex (ridge ends). A minimum of one screw or nail per side of the hip and ridge unit is required. Fasteners must be long enough to penetrate the nailing zone of the hip and ridge, the field material at the ridge, and a minimum penetration of ½" into the sheathing.
Maximum Design Pressure	-103psf

SYSTEM LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. All panels shall be permanently labeled with the manufacturer's name and/or logo, and the following statement: "Miami-Dade County Product Control Approved."
3. Fasteners for mechanical attachment shall be installed within the fastener strip provided for each type of product.
4. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
5. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

DETAIL A

FireFree Shake & Slate



END OF THIS ACCEPTANCE